CLAY LUMPS and FRIABLE PARTICLES IN AGGREGATE AASHTO T 112

APPARATUS

[ ] Container that is rust-resistant and of a size and shape that will permit the spreading of the sample on the bottom in a thin layer
[ ] Sieves
[ ] Oven maintained at 230 ± 9°F

PROCEDURE

[ ] Weight of sample as follows:

Size of Particles Making Up Test Sample	Weight of Test Sample, Min. g
No. 4 to 3/8 in.	1000
3/8 in. to 3/4 in.	2000
3/4 in. to 1 1/2 in.	3000
Over 1 1/2 in.	5000

[ ] Sample decanted in accordance with AASHTO T 11
[ ] Weight of sample determined
[ ] Sample spread on bottom of container and covered with distilled water
[ ] Sample soaked for 24 ± 4 h
[ ] Particles rolled and squeezed individually between thumb and forefinger
[ ] Broken particles separated from remainder of sample by wet sieving over sieve in following table until all material has been removed

Size of Particles Making Up Sample	Sieve Size
No. 4 to 3/8 in.	No. 8
3/8 in. to 3/4 in.	No. 4
3/4 in. to 1 1/2 in.	No. 4
Over 1 1/2 in.	No. 4

[ ] Retained particles dried to constant weight at 230 ± 9°F
[ ] Weight of sample determined

Calculation

[ ] Percent of clay lumps and friable particles in individual sizes of coarse aggregate calculated correctly to 0.1% as follows:

$$P = \frac{W - R}{W} \times 100$$

where:
P = percent of clay lumps and friable particles
W = weight of test sample
R = weight of particles retained on designated sieve

[ ] Total percent of clay lumps and friable particles weighted average of individual sizes of coarse aggregate

NA - Not Applicable
X - Requires Corrective Action
√ - Satisfactory

_____
Acceptance Technician

_____ _____
INDOT Date

Comments _____

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